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One-Dimensional Index for Nearest Neighbor **Search** *

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through the **database** 15]. The computational **complexity** for a nearest neighbor ... in a **range query**. With **data** spread along only one **dimension**, ... From the **best** solution found by the genetic **algorithm**, we construct the Su- ... eigen vectors of the **training set** are calculated, and each **training** image is then ...

www.cs.du.edu/~ramki/papers/OneDindex.pdf
k-nearest neighbor **algorithm** - Wikipedia, the free encyclopedia

This can be thought of as the **training set** for the algorithm, ... efficient manner so that the computational **complexity** is a function of the boundary **complexity**. ... The **best** choice of k depends upon the **data**; generally, larger values of k reduce ... Using an appropriate nearest neighbor **search algorithm** makes k-NN ...

en.wikipedia.org/wiki/K-nearest_neighbor_algorithm -

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Fast **Search Algorithm** for High Dimensional Pattern Analysis

by Z Jiaqi - 2008 - Related articles

On **dimension** 1, this **training** sample covers the **range** [x-R, x+R], so we create the first group of ... **dimensional query** sample, it will have N quantized values , one in each **dimension**. ... unit of **Complexity** is defined as one **set** of computations ... nearest class **search**. This **algorithm** pre-learns the **data** space ...

ieeexplore.ieee.org/iel5/4446227/4449533/04449668.pdf?arnumber...

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Efficient similarity **search** and classification via rank aggregation

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and classification in high **dimensional data**. In this framework, the **database** ... **query**. The aggregation rule picks the **database** element that has the **best** median rank. only in nearest-neighbor-based classification (and not **training**), we ... the (top) point in the **data set** returned by the **algorithm** (possibly ...

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Dimensionality Reduction Using Multi-dimensional Scaling For ...

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vectors to retrieve images from a large aerial photo **data-** ... **best** matches to the **query** image. Use of the thesaurus cuts ... **search complexity** is still high. Promising results suggest use in **training**, 400 feature vectors from the **database** of ... ity of the **algorithm** in [6] forced this small **training set**). ...

vision.ece.ucsb.edu/publications/97ICIPMDS.pdf

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Query Mesh: An Efficient Multi-Route Approach to Query Optimization

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to come in the future – a common approach in many **database** ... B. **Query Mesh Search Space**. Given a **query** and **training data**, we now study how many The computation of a single **best** route for **set of data** is viewed as a “black box” in QM framework. ... and E is the time **complexity** of the **algorithm** used to find ...

www.cs.purdue.edu/research/technical_reports/2008/TR%2008-009.pdf

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Probabilistic proximity searching algorithms based on compact ...

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naive algorithm to answer **range queries** is to perform an exhaustive search on ... Let (X, d) be a metric space and $U \subseteq X$ the **set** of objects or **database**, with $|U| = n$ the algorithm. The total **complexity** of the **search algorithm** is the sum of the internal and It requires a **training data set** Q of m objects, ...

citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.93.6085&rep...

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Effective Image Database Search via Dimensionality Reduction

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Effective **search algorithms** are important to overcome ... original descriptor, with a reduction to the **range** of 20 to ... The **complexity** of this assignment is dependent on the ... vectors for the PCA from all features in our **training set**. The closest to the features in the **query** image. The **dimension-** ...

mplab.ucsd.edu/wp-content/uploads/CVPR2008/.../data/papers/008.pdf

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Fast Best-Match Shape Searching in Rotation Invariant Metric Spaces

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to a given **query** in the **data set** Ω can easily become **Algorithm** 1 Rotation invariant **best-match search**. Preprocessing: ... rotations and store them in a sorted n -**dimensional** ... force **search**. This linear increase in space **complexity** point from the **training** subset that has the **best** pruned ...

www.siam.org/proceedings/damining/2007/dm07_070Yankov.pdf

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strate via experiments on real high **dimensional data sets** ... The
similarity **search** problem is central in a wide **range** of ... To the **best**
of our knowledge, there is no **algorithm** in element subset of the
data **set** as our **query training set**, ... When we compare the I/O time
complexity for fixed ...

www.engr.ucr.edu/~ertem/Publications/icme2002.pdf

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